

FIBER ORGANON

Formerly Textile Organon

Volume 61, No. 7 ☐ July 1990

A publication of Fiber Economics Bureau, Inc.

Highlights

- Worldwide Manufactured Fiber Survey in millions of pounds.
- Worldwide Fiber Demand rises 2% to reach 84,487 million pounds.
...Demand for manufactured fiber up 2% to 38,781 million pounds.
...Demand for natural fibers up 2% to 45,706 million pounds.

SHIPMENTS:

In June, total manufactured fiber shipments reached 709 million pounds, 5% below the 744 million pounds shipped in May and 5% below the 749 million pounds shipped in June 1989.

June shipments of synthetic (noncellulosic) filament yarn fell 5% to 343 million pounds and staple+tow fell 5% to 326 million pounds.

Contributing to the decrease in shipments over the previous month were nylon staple+tow down 11% or 9 million pounds, polyester textile yarn down 10% or 7 million pounds and rayon staple+tow down 3 million pounds or 10%.

Year-to-date domestic shipments of manufactured fiber are down 6% and exports are down 7%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & PERCENT CHANGE

ITEM	1990		% CHG 6/90-5/90	1989		% CHG 6/90-6/89	YEAR TO DATE		% CHG YTD 1990-1989
	JUN	MAY		JUN			1990	1989	
ARTIFICIAL (CELLULOSIC)									
YARN	16.9	17.4	-2.9	18.4		-8.2	100.3	111.1	-9.7
RAYON STAPLE	22.6	25.1	-10.0	30.9		-26.9	157.6	200.2	-21.3
TOTAL ARTIFICIAL (CELL)	39.5	42.5	-7.1	49.3		-19.9	257.9	311.3	-17.2
SYNTHETIC (NONCELL.)									
YARN-MONOFILAMENT									
NYLON - INDUSTRIAL	27.6	28.8	-4.2	32.7		-15.6	168.4	188.3	-10.6
- CARPET	75.8	80.1	-5.4	78.5		-3.4	491.3	476.2	+3.2
- TEXTILE ^a	31.2	32.0	-2.5	34.2		-8.8	182.2	204.7	-11.0
POLYESTER - INDUSTRIAL	30.2	30.4	-0.7	32.8		-7.9	180.7	184.6	-2.1
- TEXTILE ^a	61.4	68.4	-10.2	66.1		-7.1	370.4	440.1	-15.8
OLEFIN	117.1	119.9	-2.3	105.5		+11.0	689.0	635.1	+8.5
TOTAL YARN	343.3	359.6	-4.5	349.8		-1.9	2082.0	2129.0	-2.2
STAPLE+TOW+FIBERFILL									
NYLON	77.6	87.0	-10.8	78.3		-0.9	499.3	485.5	+2.8
ACRYLIC+MODACRYLIC	43.8	43.0	+1.9	44.0		-0.5	249.8	281.4	-11.2
POLYESTER	167.7	176.0	-4.7	193.9		-13.5	1043.4	1226.6	-14.9
OLEFIN	37.2	36.1	+3.0	33.5		+11.0	208.5	191.9	+8.7
TOTAL STAPLE	326.3	342.1	-4.6	349.7		-6.7	2001.0	2185.4	-8.4
TOTAL SYNTHETIC (NONCELL.)	669.6	701.7	-4.6	699.5		-4.3	4083.0	4314.4	-5.4
TOTAL MANUFACTURED FIBER	709.1	744.2	-4.7	748.8		-5.3	4340.9	4625.7	-6.2
TOTAL SHIPMENTS DIVIDED AS -									
DOMESTIC SHIPMENTS ^b	666.4	699.9	-4.8	708.7		-6.0	4100.6	4366.3	-6.1
EXPORTS ^c	42.7	44.3	-3.6	40.1		+6.5	240.3	259.4	-7.4

a. Includes low denier industrial yarn.

b. Includes olefin exports.

c. Excludes olefin exports.

July 1990

Fiber Organon

A Monthly Review

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FIBER ECONOMICS BUREAU, INC.

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ISSN 0040-5132
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published monthly. All rights
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Subscription Rates (payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	250.00	300.00
Schools & Nonprofit	150.00	300.00
Single Issues:		
May	100.00	150.00
June	150.00	200.00
September	100.00	150.00
December	100.00	150.00
All Others	50.00	75.00

Issues are sent by 1st class
mail to U.S. subscribers and by
airmail to foreign subscribers

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**GRAPH 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
—SHARE**



**TABLE 2:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
MILLION POUNDS**

TYPE OF FIBER	1985	1986	1987	1988	1989	% CHANGE 1989/1988
ARTIFICIAL (CELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	2037	2037	2007	2090	2046	-2.1
STAPLE+TOW	4424	4267	4220	4275	4291	+0.4
TOTAL ARTIFICIAL (CELLULOSIC)	6461	6304	6227	6365	6337	-0.4
SYNTHETIC (NONCELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	12297	12552	13316	14423	14811	+2.7
STAPLE+TOW	15235	15974	16985	17241	17633	+2.3
TOTAL SYNTHETIC (NONCELLULOSIC)	27532	28526	30301	31664	32444	+2.5
TOTAL MANUFACTURED ^a	33993	34830	36528	38029	38781	+2.0
% of World Total	46%	44%	45%	46%	46%	
NATURAL FIBERS						
RAW COTTON ^b	36519	40300	40219	40750	41299	+1.3
RAW WOOL ^c	3796	3946	4045	4151	4261	+2.6
RAW SILK ^d	130	139	139	141	146	+3.5
TOTAL NATURAL	40445	44385	44403	45042	45706	+1.5
% of World Total	54%	56%	55%	54%	54%	
WORLD TOTAL	74438	79215	80931	83071	84487	+1.7
World Total %	100%	100%	100%	100%	100%	

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Manufactured fiber data are from tables 4 and 5. Glass fiber, olefin and acetate cigarette tow production are not included.

b. International Cotton Advisory Committee. *COTTON: Review of the World Situation*, May - June 1990. New series based on cotton consumption data.

c. Commonwealth Secretariat, *Wool Quarterly*, No. III, 1989, on a clean wool basis. See also the December 1989 *Fiber Organon*, page 267.

d. International Silk Association, Food and Agriculture Organization of the United States.

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY
BY COUNTRY EXCEPT OLEFIN
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1985			1986			1987		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	39.9	39.9	0	35.1	35.1	0	34.6	34.6
BENELUX ^a	177.5	66.4	243.9	160.9	75.8	236.7	163.1	72.8	235.9
FINLAND	1.1	0	1.1	0.4	0	0.4	0.2	0	0.2
FRANCE	133.8	269.0	402.8	134.9	233.7	368.6	125.2	229.7	354.9
GERMANY, FED. REP.	793.7	886.2	1679.9	771.6	870.8	1642.4	783.3	890.7	1674.0
GREECE	19.8	22.0	41.8	20.7	23.1	43.8	20.7	22.0	42.7
IRELAND	25.4	99.9	125.3	24.3	134.5	158.8	24.3	138.9	163.2
ITALY/MALTA	378.3	864.2	1242.5	385.8	886.0	1271.8	377.0	867.7	1244.7
PORTUGAL	2.2	112.4	114.6	0	121.3	121.3	0	127.4	127.4
SPAIN	187.4	418.7	606.1	187.2	421.7	608.9	177.5	414.5	592.0
SWITZERLAND	161.2	58.6	219.8	147.9	57.3	205.2	146.0	48.7	194.7
TURKEY	114.6	295.4	410.0	132.3	372.6	504.9	152.1	421.1	573.2
UNITED KINGDOM	186.7	348.3	535.0	172.4	286.6	459.0	179.5	268.1	447.6
TOTAL WESTERN EUROPE	2181.7	3481.0	5662.7	2138.4	3518.5	5656.9	2148.9	3536.2	5685.1
EASTERN EUROPE									
ALBANIA	0.9	0	0.9	0.9	0	0.9	1.1	0	1.1
BULGARIA	61.7	94.4	156.1	83.8	105.6	189.4	87.3	107.4	194.7
CZECHOSLOVAKIA	167.5	85.5	253.0	164.7	101.0	265.7	168.9	102.5	271.4
GERMANY, DEM. REP.	143.3	178.1	321.4	169.8	180.3	350.1	160.1	177.9	338.0
HUNGARY	18.5	31.7	50.2	18.5	34.4	52.9	15.0	37.3	52.3
POLAND	190.5	111.6	302.1	188.7	102.7	291.4	193.6	102.7	296.3
ROMANIA	127.9	306.0	433.9	129.6	310.6	440.2	131.2	313.9	445.1
USSR	857.1	714.3	1571.4	892.4	778.2	1670.6	959.0	904.3	1863.3
YUGOSLAVIA	78.3	131.2	209.5	87.5	127.0	214.5	101.4	140.9	242.3
TOTAL EASTERN EUROPE	1645.7	1652.8	3298.5	1735.9	1739.8	3475.7	1817.6	1886.9	3704.5
TOTAL EUROPE	3827.4	5133.8	8961.2	3874.3	5258.3	9132.6	3966.5	5423.1	9389.6

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1988			1989			3/1990			12/1991		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	36.8	36.8	0	38.4	38.4	0	48.5	48.5	0	48.5	48.5
169.5	74.1	243.6	176.4	88.2	264.6	228.2	168.7	396.9	228.2	179.7	407.9
0.2	0	0.2	0.4	0	0.4	1.1	0	1.1	1.1	0	1.1
128.7	256.6	385.3	128.7	235.0	363.7	177.5	281.1	458.6	147.7	282.2	429.9
793.4	862.4	1655.8	782.6	925.9	1708.5	932.5	965.6	1898.1	952.4	976.6	1929.0
20.9	20.9	41.8	22.5	17.6	40.1	37.5	26.5	64.0	37.5	26.5	64.0
29.8	144.8	174.6	36.8	161.6	198.4	30.9	180.8	211.7	39.7	180.8	220.5
411.4	832.5	1243.9	429.9	760.6	1190.5	434.3	983.3	1417.6	429.9	1003.1	1433.0
0	119.7	119.7	0	123.0	123.0	0	145.5	145.5	0	145.5	145.5
175.5	409.6	585.1	174.8	387.3	562.1	262.3	489.4	751.7	262.3	487.2	749.5
160.5	60.4	220.9	160.1	50.7	210.8	187.4	72.8	260.2	176.4	72.8	249.2
169.8	401.2	571.0	191.8	432.1	623.9	366.0	531.3	897.3	381.4	553.4	934.8
206.4	220.2	426.6	220.5	187.4	407.9	238.1	352.7	590.8	220.5	374.8	595.3
2266.1	3439.2	5705.3	2324.5	3407.8	5732.3	2895.8	4246.2	7142.0	2877.1	4331.1	7208.2
1.1	0	1.1	1.1	0	1.1	4.4	0	4.4	4.4	11.0	15.4
90.2	108.5	198.7	90.8	109.3	200.1	132.3	238.1	370.4	132.3	238.1	370.4
179.2	105.8	285.0	167.8	115.3	283.1	222.4	191.8	414.2	222.4	191.8	414.2
172.6	187.8	360.4	167.5	195.3	362.8	214.5	286.6	501.1	236.6	286.6	523.2
18.7	39.9	58.6	14.6	41.9	56.5	27.6	44.1	71.7	27.6	94.8	122.4
197.1	117.5	314.6	176.8	108.9	285.7	251.8	156.5	408.3	251.8	189.6	441.4
131.0	316.6	447.6	131.6	317.7	449.3	149.9	394.6	544.5	149.9	394.6	544.5
1009.0	906.3	1915.3	1032.2	930.3	1962.5	1190.5	1157.4	2347.9	1254.4	1183.9	2438.3
99.6	127.4	227.0	103.8	133.2	237.0	158.7	246.9	405.6	167.5	246.9	414.4
1898.5	1909.8	3808.3	1886.2	1951.9	3838.1	2352.1	2716.0	5068.1	2446.9	2837.3	5284.2
4164.6	5349.0	9513.6	4210.7	5359.7	9570.4	5247.9	6962.2	12210.1	5324.0	7168.4	12492.4

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY
BY COUNTRY EXCEPT OLEFIN (CONTINUED)
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1985			1986			1987		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	2835.7	3478.6	6314.3	2778.2	3656.5	6434.7	2875.9	3945.7	6821.6
CANADA	165.6	127.9	293.5	166.0	141.8	307.8	157.6	128.3	285.9
OTHER AMERICAS									
ARGENTINA	59.7	37.0	96.7	67.7	53.8	121.5	61.5	64.8	126.3
BRAZIL	268.3	211.2	479.5	297.2	225.3	522.5	300.6	246.5	547.1
CHILE	9.0	4.4	13.4	8.8	5.1	13.9	9.7	6.0	15.7
COLOMBIA	84.4	21.8	106.2	84.0	20.3	104.3	85.1	23.8	108.9
COSTA RICA	7.7	0	7.7	9.3	0	9.3	9.3	0	9.3
ECUADOR	10.8	0	10.8	12.8	0	12.8	12.3	0	12.3
MEXICO	342.8	331.6	674.4	297.0	356.3	653.3	276.2	458.3	734.5
PERU	24.9	72.8	97.7	25.6	76.1	101.7	26.2	73.9	100.1
URUGUAY	4.0	8.8	12.8	4.0	7.1	11.1	4.4	7.5	11.9
VENEZUELA	27.6	13.2	40.8	29.5	23.1	52.6	31.5	48.3	79.8
TOTAL OTHER AMERICAS	839.2	700.8	1540.0	835.9	767.1	1603.0	816.8	929.1	1745.9
JAPAN	1422.8	1669.5	3092.3	1334.2	1654.3	2988.5	1342.2	1613.3	2955.5
CHINA, PRC	297.4	1316.4	1613.8	339.1	1308.7	1647.8	460.8	1404.3	1865.1
OTHER ASIA									
BANGLADESH	1.1	0	1.1	1.1	0	1.1	1.1	0	1.1
INDIA	281.1	145.9	427.0	306.7	179.9	486.6	353.4	233.0	586.4
INDONESIA	169.5	155.0	324.5	190.0	172.0	362.0	235.9	178.4	414.3
KOREA, REP. OF	901.0	888.2	1789.2	962.3	938.9	1901.2	1057.1	1081.6	2138.7
MALAYSIA	0	85.5	85.5	0	83.6	83.6	0	85.8	85.8
PAKISTAN	44.1	50.7	94.8	56.9	53.8	110.7	61.3	56.0	117.3
PHILIPPINES	48.5	26.9	75.4	44.1	33.1	77.2	50.7	28.0	78.7
SRI LANKA	2.6	0	2.6	2.9	0	2.9	3.3	0	3.3
TAIWAN	1123.2	1133.4	2256.6	1335.1	1381.2	2716.3	1576.5	1490.8	3067.3
THAILAND	93.9	121.3	215.2	88.2	125.7	213.9	113.1	148.1	261.2
TOTAL OTHER ASIA	2665.0	2606.9	5271.9	2987.3	2968.2	5955.5	3452.4	3301.7	6754.1
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA/N.Z.	32.2	2.2	34.4	35.9	2.2	38.1	35.3	2.4	37.7
EGYPT	12.3	60.8	73.1	13.9	67.5	81.4	15.2	70.8	86.0
IRAN	29.8	55.1	84.9	20.9	57.3	78.2	20.9	57.1	78.0
ISRAEL	30.2	16.1	46.3	23.1	17.6	40.7	25.4	22.0	47.4
KENYA	11.2	0	11.2	11.2	2.2	13.4	11.0	2.4	13.4
NIGERIA	7.1	6.6	13.7	7.7	6.8	14.5	8.8	6.8	15.6
SOUTH AFRICA	116.4	60.4	176.8	119.5	65.0	184.5	120.8	77.8	198.6
TANZANIA	4.4	0	4.4	5.5	0	5.5	6.6	0	6.6
TOTAL M.E., A. & O.	243.6	201.2	444.8	237.7	218.6	456.3	244.0	239.3	483.3
TOTAL WORLD	12296.7	15235.1	27531.8	12552.7	15973.5	28526.2	13316.2	16984.8	30301.0

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1988			1989			3/1990			12/1991		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
2956.2	3981.6	6937.8	2968.2	3908.7	6876.9	3365.0	4352.0	7717.0	3545.0	4565.0	8110.0
167.8	130.5	298.3	143.7	131.4	275.1	239.0	160.9	399.9	239.0	160.9	399.9
59.7	45.0	104.7	52.7	43.7	96.4	106.5	89.5	196.0	106.5	89.5	196.0
277.3	251.1	528.4	291.4	251.8	543.2	387.3	300.0	687.3	387.3	333.1	720.4
10.1	6.2	16.3	10.6	6.6	17.2	17.0	33.1	50.1	17.0	33.1	50.1
79.4	28.4	107.8	85.1	27.6	112.7	130.5	58.4	188.9	132.3	91.5	223.8
9.5	0	9.5	0	0	0	0	0	0	0	0	0
14.3	0	14.3	14.3	0	14.3	15.9	0	15.9	15.9	0	15.9
291.7	470.9	762.6	261.7	479.5	741.2	398.8	586.4	985.2	429.7	791.5	1221.2
26.9	69.7	96.6	30.0	72.5	102.5	43.7	83.8	127.5	43.7	83.8	127.5
4.6	7.9	12.5	4.9	8.6	13.5	11.0	12.1	23.1	11.0	12.1	23.1
39.9	46.1	86.0	42.5	47.2	89.7	54.5	81.6	136.1	54.5	81.6	136.1
813.4	925.3	1738.7	793.2	937.5	1730.7	1165.2	1244.9	2410.1	1197.9	1516.2	2714.1
1364.4	1616.0	2980.4	1448.2	1588.0	3036.2	1838.6	2041.5	3880.1	1955.5	2041.5	3997.0
898.6	1469.8	2368.4	908.3	1682.1	2590.4	1000.9	2215.6	3216.5	1058.2	2319.2	3377.4
1.3	0	1.3	1.3	0	1.3	2.2	0	2.2	2.2	39.7	41.9
441.1	267.9	709.0	451.9	303.1	755.0	712.1	659.2	1371.3	1080.3	952.4	2032.7
238.5	190.9	429.4	269.0	231.5	500.5	405.6	451.9	857.5	473.3	496.0	969.3
1279.3	1178.8	2458.1	1386.3	1236.8	2623.1	1555.1	1388.9	2944.0	1764.6	1479.3	3243.9
0	88.2	88.2	0	99.2	99.2	0	110.2	110.2	0	110.2	110.2
40.1	71.2	111.3	39.7	57.3	97.0	68.3	158.7	227.0	88.2	242.5	330.7
54.0	33.1	87.1	55.8	37.5	93.3	77.2	55.1	132.3	92.6	110.2	202.8
3.3	0	3.3	4.4	0	4.4	6.6	0	6.6	6.6	0	6.6
1615.3	1537.7	3153.0	1727.3	1630.5	3357.8	2048.7	2018.1	4066.8	2323.6	2093.0	4416.6
123.5	164.0	287.5	132.3	187.4	319.7	165.8	312.2	478.0	362.0	470.9	832.9
3796.4	3531.8	7328.2	4068.0	3783.3	7851.3	5041.6	5154.3	10195.9	6193.4	5994.2	12187.6
33.5	2.6	36.1	37.5	2.6	40.1	40.8	3.3	44.1	40.8	3.3	44.1
18.1	75.4	93.5	20.7	84.7	105.4	41.9	176.4	218.3	48.5	242.5	291.0
21.8	55.1	76.9	22.7	66.1	88.8	88.2	99.2	187.4	97.0	110.2	207.2
26.5	17.6	44.1	27.3	0	27.3	33.1	0	33.1	33.1	0	33.1
11.0	2.4	13.4	10.8	2.4	13.2	37.5	6.6	44.1	37.5	6.6	44.1
9.9	6.8	16.7	9.9	7.1	17.0	26.5	11.0	37.5	44.1	11.0	55.1
133.8	77.6	211.4	135.4	79.1	214.5	163.1	91.9	255.0	163.1	98.5	261.6
6.6	0	6.6	6.6	0	6.6	11.0	0	11.0	11.0	0	11.0
261.2	237.5	498.7	270.9	242.0	512.9	442.1	388.4	830.5	475.1	472.1	947.2
14422.6	17241.5	31664.1	14811.2	17632.7	32443.9	18340.3	22519.8	40860.1	19988.1	24237.5	44225.6

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY
BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1985			1986			1987		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE ^a									
AUSTRIA	32.8	240.3	273.1			271.2			264.6
BELGIUM/NETHERLANDS	92.6	0	92.6			88.2			88.2
FINLAND	0	132.3	132.3			121.3			119.0
FRANCE	15.4	33.1	48.5			46.3			50.7
GERMANY, FED. REP.	141.1	121.3	262.4	DETAIL		262.3	DETAIL		260.1
GREECE	15.4	0	15.4	NO		17.0	NO		17.2
ITALY	66.6	0	66.6	LONGER		66.1	LONGER		63.9
PORTUGAL	2.2	0	2.2	AVAILABLE		2.0	AVAILABLE		2.6
SPAIN	16.5	66.1	82.6			81.6			77.2
SWEDEN	0	72.8	72.8			48.7			50.7
TURKEY	2.2	15.4	17.6			17.6			17.6
UNITED KINGDOM	41.9	132.7	174.6			127.9			121.3
TOTAL WESTERN EUROPE	426.7	814.0	1240.7	420.2	730.0	1150.2	407.8	725.3	1133.1
EASTERN EUROPE									
BULGARIA	9.0	82.9	91.9	9.3	83.8	93.1	9.5	0	9.5
CZECHOSLOVAKIA	46.1	87.3	133.4	39.7	82.0	121.7	40.6	81.1	121.7
GERMANY, DEM. REP.	78.0	291.9	369.9	78.5	269.2	347.7	79.1	266.1	345.2
HUNGARY	0	12.1	12.1	0	12.1	12.1	0	9.0	9.0
POLAND	45.2	111.6	156.8	42.1	116.6	158.7	42.5	119.0	161.5
ROMANIA	19.4	116.8	136.2	19.8	121.3	141.1	19.8	125.7	145.5
USSR	542.3	749.6	1291.9	542.3	756.2	1298.5	543.4	760.6	1304.0
YUGOSLAVIA	32.8	121.3	154.1	33.3	123.5	156.8	29.3	110.2	139.5
TOTAL EASTERN EUROPE	772.8	1573.5	2346.3	765.0	1564.7	2329.7	764.2	1471.7	2235.9
TOTAL EUROPE	1199.5	2387.5	3587.0	1185.2	2294.7	3479.9	1172.0	2197.0	3369.0

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Starting in 1986 country detail is no longer available due to disclosure.

These totals do not include data for the Indonesian pilot plant nor production of artificial (cellulosic) fiber in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 172 - 173.

Also note page 179 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1988			1989			3/1990			12/1991		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
		291.0			299.8			297.6			297.6
		90.4			88.2			94.8			94.8
		133.2			142.9			143.3			152.1
DETAIL		33.1	DETAIL		4.4	DETAIL		6.6	DETAIL		6.6
NO		269.0	NO		284.4	NO		284.4	NO		284.4
LONGER		15.9	LONGER		16.5	LONGER		17.6	LONGER		17.6
AVAILABLE		70.5	AVAILABLE		77.2	AVAILABLE		94.8	AVAILABLE		94.8
		1.8			2.0			4.4			4.4
		81.6			88.2			86.0			92.6
		44.1			44.8			45.2			55.1
		19.2			20.5			22.0			22.0
		141.1			121.3			154.3			165.3
421.2	769.7	1190.9	434.4	755.8	1190.2	457.4	793.6	1251.0	467.3	820.0	1287.3
9.7	0	9.7	9.7	0	9.7	11.0	92.6	103.6	11.0	92.6	103.6
41.7	86.9	128.6	26.2	64.2	90.4	59.5	101.4	160.9	59.5	101.4	160.9
80.0	261.9	341.9	84.7	290.8	375.5	86.0	352.7	438.7	86.0	352.7	438.7
0	9.3	9.3	0	9.5	9.5	22.0	22.0	44.0	22.0	44.1	66.1
44.5	119.0	163.5	37.3	97.4	134.7	50.7	157.6	208.3	50.7	157.6	208.3
20.1	146.6	166.7	19.8	135.8	155.6	24.3	194.0	218.3	24.3	194.0	218.3
581.6	743.4	1325.0	540.3	747.1	1287.4	639.3	778.2	1417.5	749.6	778.2	1527.8
30.9	119.0	149.9	32.8	123.9	156.7	37.5	132.3	169.8	37.5	138.9	176.4
808.5	1486.1	2294.6	750.8	1468.7	2219.5	930.3	1830.8	2761.1	1040.6	1859.5	2900.1
1229.7	2255.8	3485.5	1185.2	2224.5	3409.7	1387.7	2624.4	4012.1	1507.9	2679.5	4187.4

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY
BY COUNTRY (CONTINUED)
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1985			1986			1987		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	204.6	353.2	557.8	214.8	404.2	619.0	191.1	414.3	605.4
CANADA	17.6	59.3	76.9	19.4	64.2	83.6	28.7	62.8	91.5
OTHER AMERICAS									
ARGENTINA	3.3	3.3	6.6	6.6	10.8	17.4	7.3	5.5	12.8
BRAZIL	44.3	58.4	102.7	37.0	74.1	111.1	33.1	74.7	107.8
CHILE	2.9	8.4	11.3	2.9	8.6	11.5	2.9	8.8	11.7
COLOMBIA	4.0	0	4.0	4.0	0	4.0	5.1	0	5.1
CUBA	4.6	14.1	18.7	5.7	19.2	24.9	3.7	19.4	23.1
MEXICO	27.8	0	27.8	26.5	0	26.5	25.1	0	25.1
PERU	3.7	0	3.7	1.8	0	1.8	2.4	0	2.4
URUGUAY	2.2	0	2.2	2.9	0	2.9	2.6	0	2.6
VENEZUELA	4.6	0	4.6	3.3	0	3.3	4.9	0	4.9
TOTAL OTHER AMERICAS	97.4	84.2	181.6	90.7	112.7	203.4	87.1	108.4	195.5
JAPAN	230.6	624.6	855.2	226.6	478.8	705.4	219.1	443.3	662.4
CHINA, PRC	112.4	286.6	399.0	116.8	286.6	403.4	121.3	291.0	412.3
OTHER ASIA									
BANGLADESH	6.6	2.2	8.8	8.8	2.4	11.2	9.9	2.9	12.8
INDIA	103.4	209.4	312.8	109.3	199.3	308.6	111.8	257.5	369.3
INDONESIA	0	89.7	89.7	0	101.6	101.6	0	114.6	114.6
KOREA, REP. OF	30.4	0	30.4	30.6	0	30.6	31.1	0	31.1
PAKISTAN	7.1	0	7.1	7.1	0	7.1	7.3	0	7.3
PHILLIPPINES	0	0	0	0	0	0	0	0	0
TAIWAN	5.3	263.4	268.7	6.2	258.2	264.4	5.3	258.4	263.7
THAILAND	0	41.9	41.9	0	41.9	41.9	0	47.2	47.2
TOTAL OTHER ASIA	152.8	606.6	759.4	162.0	603.4	765.4	165.4	680.6	846.0
MIDDLE EAST, AFRICA & OCEANIA									
EGYPT	15.4	10.4	25.8	15.4	10.4	25.8	15.4	10.6	26.0
IRAQ	6.6	12.1	18.7	6.6	12.1	18.7	6.8	12.1	18.9
TOTAL M.E., A & O	22.0	22.5	44.5	22.0	22.5	44.5	22.2	22.7	44.9
TOTAL WORLD	2036.9	4424.5	6461.4	2037.5	4267.1	6304.6	2006.9	4220.1	6227.0

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1988			1989			3/1990			12/1991		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
213.9	399.8	613.7	217.5	362.8	580.3	219.0	323.0	542.0	219.0	323.0	542.0
28.9	73.2	102.1	28.9	73.9	102.8	32.0	83.8	115.8	54.0	83.8	137.8
7.3	0	7.3	7.7	0	7.7	26.0	11.0	37.0	26.0	11.0	37.0
32.8	80.7	113.5	32.6	88.6	121.2	37.5	91.9	129.4	37.5	91.9	129.4
2.9	9.0	11.9	2.9	9.3	12.2	3.3	11.9	15.2	3.3	11.9	15.2
5.3	0	5.3	5.5	0	5.5	7.7	0	7.7	7.7	0	7.7
1.3	23.4	24.7	1.5	16.8	18.3	3.3	24.3	27.6	3.3	24.3	27.6
26.5	0	26.5	26.9	0	26.9	34.8	0	34.8	34.8	0	34.8
2.9	0	2.9	3.1	0	3.1	3.7	0	3.7	3.7	0	3.7
2.9	0	2.9	2.9	0	2.9	4.2	0	4.2	4.2	0	4.2
4.9	0	4.9	5.1	0	5.1	5.3	0	5.3	5.3	0	5.3
86.8	113.1	199.9	88.2	114.7	202.9	125.8	139.1	264.9	125.8	139.1	264.9
220.0	420.6	640.6	218.3	383.6	601.9	258.8	473.8	732.6	258.8	473.8	732.6
116.8	264.6	381.4	110.2	286.6	396.8	143.3	363.8	507.1	143.3	374.8	518.1
10.6	2.2	12.8	10.6	2.2	12.8	11.9	11.0	22.9	11.9	11.0	22.9
116.0	267.9	383.9	116.8	275.6	392.4	173.9	370.8	544.5	173.9	374.3	548.2
0	130.1	130.1	0	132.3	132.3	0	213.0	213.0	0	369.5	369.5
33.3	0	33.3	33.7	0	33.7	37.5	61.7	99.2	37.5	61.7	99.2
6.2	0	6.2	7.1	0	7.1	7.7	0	7.7	7.7	0	7.7
0	0	0	0	0	0	0	55.1	55.1	0	55.1	55.1
5.7	271.6	277.3	5.7	319.7	325.4	7.1	325.4	332.5	8.8	329.4	338.2
0	52.9	52.9	0	90.8	90.8	0	92.6	92.6	0	92.6	92.6
171.8	724.7	896.5	173.9	820.6	994.5	238.1	1129.4	1367.5	239.8	1293.6	1533.4
15.4	11.0	26.4	17.4	11.5	28.9	17.6	11.9	29.5	17.6	11.9	29.5
6.4	12.1	18.5	6.6	12.3	18.9	7.7	14.3	22.0	7.7	14.3	22.0
21.8	23.1	44.9	24.0	23.8	47.8	25.3	26.2	51.5	25.3	26.2	51.5
2089.7	4274.9	6364.6	2046.2	4290.5	6336.7	2430.0	5163.5	7593.5	2573.9	5393.8	7967.7

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN
PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1985			1986			1987		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA	22	11	0	DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
BELGIUM/NETHERLANDS	40	38	15						
FRANCE	0	15	0						
GERMANY, FED. REP. OF	88	53	0						
ITALY ^a	22	5	40						
SPAIN	+	9	7						
UNITED KINGDOM	0	0	42						
OTHER ^b	0	20	0						
TOTAL WESTERN EUROPE	172	151	104	157	151	112	148	154	106
EASTERN EUROPE									
BULGARIA	0	9	0	0	9	0	0	9	0
CZECHOSLOVAKIA	18	29	0	18	22	0	18	22	0
GERMANY, DEM. REP.	29	49	0	31	48	0	31	48	0
HUNGARY	0	0	0	0	0	0	0	0	0
POLAND	11	33	0	11	31	0	11	33	0
ROMANIA	11	9	0	11	9	0	11	9	0
USSR ^a	256	176	110	256	176	110	258	176	110
YUGOSLAVIA	18	15	0	15	18	0	13	15	0
TOTAL EASTERN EUROPE	343	320	110	342	313	110	342	312	110
U.S.A.	20	13	172	15	13	187	15	13	163
CANADA	0	0	18	0	0	19	0	0	29
OTHER AMERICAS									
ARGENTINA	0	0	4	0	0	7	0	0	7
BRAZIL	9	33	2	2	33	0	0	33	0
CHILE	0	3	0	0	3	0	0	3	0
COLOMBIA	0	0	4	0	0	4	0	0	5
CUBA	5	0	0	7	0	0	4	0	0
MEXICO	5	7	15	5	7	15	5	7	13
PERU	0	0	4	0	0	2	0	0	2
URUGUAY	0	0	2	0	0	2	0	0	3
VENEZUELA	0	0	4	0	0	4	0	0	5
TOTAL OTHER AMERICAS	19	43	35	14	43	34	9	43	35
JAPAN^a	4	164	63	4	163	60	4	155	60
CHINA, PRC	0	112	0	0	117	0	0	121	0
OTHER ASIA									
BANGLADESH	0	7	0	0	9	0	0	10	0
INDIA	15	88	+	11	98	+	11	101	+
KOREA, REP. OF	0	26	4	0	26	4	0	27	4
PAKISTAN	0	0	7	0	0	7	0	0	7
TAIWAN	0	5	0	0	7	0	0	5	0
TOTAL OTHER ASIA	15	126	11	11	140	11	11	143	11
OTHER M.E., A & O^c	0	22	0	0	22	0	0	22	0
WORLD TOTAL	573	951	513	543	962	533	529	963	514

NA No Longer Available

H High tenacity (tire & industrial type) viscose rayon yarn.

R Regular + intermediate tenacity viscose rayon yarn.

C Cuprammonium rayon yarn.

A Acetate + triacetate yarn.

a. Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.

b. Comprises Greece, Portugal and Turkey.

c. Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1988			1989			3/1990			12/1991		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
165	146	110	174	148	112	191	149	117	191	157	119
0	9	0	0	9	0	0	11	0	0	11	0
18	24	0	11	15	0	24	35	0	24	35	0
31	51	0	33	52	0	33	53	0	33	53	0
0	0	0	0	0	0	0	22	0	0	22	0
11	35	0	9	29	0	0	51	0	0	51	0
11	9	0	11	9	0	13	11	0	13	11	0
262	187	132	229	201	110	265	220	154	331	265	154
13	15	0	15	18	0	18	20	0	18	20	0
346	330	132	308	333	110	353	423	154	419	468	154
15	13	186	NA	NA	NA	NA	NA	NA	NA	NA	NA
0	0	29	NA	NA	NA	NA	NA	NA	NA	NA	NA
0	0	7	0	0	7	4	13	9	4	13	9
0	33	0	0	33	0	0	38	0	0	38	0
0	3	0	0	3	0	0	3	0	0	3	0
0	0	5	0	0	6	0	9	9	0	0	9
1	0	0	2	0	0	2	0	0	2	0	0
4	9	13	4	9	13	7	9	20	7	9	20
0	0	3	0	0	3	0	0	4	0	0	4
0	0	3	0	0	3	0	0	4	0	0	4
0	0	5	0	0	5	0	0	4	0	0	4
5	45	36	6	45	37	13	63	50	13	63	50
2	158	60	0	161	57	0	186	73	0	186	73
0	117	0	0	110	0	0	143	0	0	143	0
0	9	0	0	11	0	0	11	0	0	11	0
20	96	0	20	96	0	46	119	9	46	119	9
0	26	7	0	24	9	0	26	11	0	26	11
0	0	7	0	0	7	0	0	9	0	0	9
0	7	0	0	7	0	0	7	0	0	9	0
20	138	14	20	138	16	46	163	29	46	165	29
0	22	0	0	24	0	0	25	0	0	25	0
553	969	567	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 6:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY
BY FIBER EXCEPT OLEFIN
MILLION POUNDS

FIBER & AREA	ACTUAL PRODUCTION								
	1985			1986			1987		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	2	2039	2041	2	2070	2072	2	2090	2092
EAST EUROPE	0	540	540	0	567	567	0	619	619
U.S.A.	0	631	631	0	615	615	0	592	592
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	0	295	295	0	340	340	0	399	399
JAPAN	4	838	842	7	869	876	7	891	898
CHINA, PRC	0	161	161	0	163	163	0	165	165
OTHER ASIA	0	703	703	0	721	721	0	758	758
MIDDLE EAST, AFRICA & OCEANIA	0	35	35	0	40	40	0	44	44
TOTAL	6	5242	5246	9	5385	5394	9	5558	5567
NYLON+ARAMID ^a									
WEST EUROPE	1173	335	1508	1140	311	1451	1142	302	1444
EAST EUROPE	1188	205	1393	1208	218	1426	1248	220	1468
U.S.A.	1515	827	2342	1605	908	2513	1697	992	2689
CANADA	119	26	145	119	31	150	112	29	141
OTHER AMERICAS	386	18	404	375	24	399	364	22	386
JAPAN	642	53	695	573	42	615	578	37	615
CHINA, PRC	154	2	156	163	2	165	174	2	176
OTHER ASIA	809	11	820	853	9	862	939	13	952
MIDDLE EAST, AFRICA & OCEANIA	123	2	125	126	2	128	128	2	130
TOTAL	6109	1479	7588	6162	1547	7709	6382	1619	8001
POLYESTER									
WEST EUROPE	994	1087	2081	985	1118	2103	994	1124	2118
EAST EUROPE	456	902	1358	526	948	1474	568	1041	1609
U.S.A.	1321	2021	3342	1173	2134	3307	1179	2362	3541
CANADA	47	102	149	47	111	158	46	99	145
OTHER AMERICAS	451	388	839	459	403	862	451	508	959
JAPAN	725	713	1438	710	683	1393	713	623	1336
CHINA, PRC	121	977	1098	154	1005	1159	265	1094	1359
OTHER ASIA	1856	1890	3746	2134	2235	4369	2512	2528	5040
MIDDLE EAST, AFRICA & OCEANIA	121	164	285	112	177	289	116	193	309
TOTAL	6092	8244	14336	6300	8814	15114	6844	9572	16416
OTHER FIBERS EXCEPT OLEFIN ^b									
WEST EUROPE	13	20	33	11	20	31	11	20	31
EAST EUROPE	2	6	8	2	7	9	2	7	9
U.S.A.	+	+	+	+	+	+	+	+	+
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	2	0	2	2	0	2	2	0	2
JAPAN	51	66	117	44	60	104	44	62	106
CHINA, PRC	22	176	198	22	139	161	22	143	165
OTHER ASIA	0	2	2	0	2	2	0	4	4
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	90	270	360	81	228	309	81	236	317
TOTAL FIBERS ABOVE									
WEST EUROPE	2182	3481	5663	2138	3519	5657	2149	3536	5685
EAST EUROPE	1646	1653	3299	1736	1740	3476	1818	1887	3705
U.S.A.	2836	3479	6315	2778	3657	6435	2876	3946	6822
CANADA	166	128	294	166	142	308	158	128	286
OTHER AMERICAS	839	701	1540	836	767	1603	817	929	1746
JAPAN	1422	1670	3092	1334	1654	2988	1342	1613	2955
CHINA, PRC	297	1316	1613	339	1309	1648	461	1404	1865
OTHER ASIA	2665	2606	5271	2987	2967	5954	3451	3303	6754
MIDDLE EAST, AFRICA & OCEANIA	244	201	445	238	219	457	244	239	483
WORLD TOTAL	12297	15235	27532	12552	15974	28526	13316	16985	30301

Y Yam+monofilaments.

S Staple+tow+fiberfill.

+ Nominal quantities.

a. U.S.A. nylon producing capacity data do not include aramid.

b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinyl and vinyon. U.S.A. production data do not include spandex.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION ^c	
1988			1989			3/1990			12/1991				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
2	1929	1931	2	1748	1750	2	2390	2392	2	2418	2420	100.0	73.5
0	611	611	0	635	635	0	877	877	0	948	948	0	72.6
0	589	589	0	543	543	0	641	641	0	651	651	0	84.6
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	399	399	0	399	399	0	494	494	0	600	600	0	82.8
7	871	878	7	800	807	13	939	952	13	939	952	53.8	83.6
0	170	170	0	220	220	0	276	276	0	335	335	0	79.7
0	774	774	0	800	800	0	966	966	0	1138	1138	0	84.7
0	37	37	0	31	31	0	44	44	0	90	90	0	70.5
9	5380	5389	9	5176	5185	15	6627	6642	15	7119	7134	80.0	78.4
1208	302	1510	1228	326	1554	1490	445	1935	1479	441	1920	83.7	74.9
1283	227	1510	1279	229	1508	1528	273	1801	1596	280	1876	84.3	85.1
1728	941	2669	1759	981	2740	2062	1142	3204	2126	1162	3288	88.1	85.8
119	29	148	123	35	158	214	53	267	214	53	267	57.5	66.0
353	15	368	328	18	346	527	31	558	527	31	558	58.1	43.9
589	33	622	586	35	621	705	60	765	822	60	882	82.7	58.3
205	2	207	229	2	231	262	44	306	320	55	375	90.7	7.3
1032	13	1045	1036	13	1049	1356	40	1396	1618	40	1658	78.0	44.8
134	2	136	141	2	143	231	7	238	231	7	238	62.1	25.0
6651	1564	8215	6709	1641	8350	8375	2095	10470	8933	2129	11062	81.1	79.4
1045	1188	2233	1074	1314	2388	1382	1384	2766	1378	1446	2824	79.0	95.0
613	1065	1678	605	1084	1689	822	1548	2370	849	1591	2440	77.3	72.4
1228	2452	3680	1209	2385	3594	1303	2569	3872	1419	2752	4171	90.3	91.9
49	101	150	19	96	115	25	108	133	25	108	133	77.6	85.3
458	511	969	463	519	982	634	720	1354	667	887	885	70.6	76.5
724	646	1370	811	682	1493	1054	825	1879	1054	825	1879	77.8	83.1
676	1168	1844	661	1323	1984	705	1731	2436	705	1764	2469	93.8	82.2
2766	2741	5507	3035	2970	6005	3687	4146	7833	4576	4813	9389	83.4	75.0
127	198	325	130	209	339	211	337	548	244	375	619	55.9	63.9
7686	10070	17756	8007	10582	18589	9823	13368	23191	10917	14561	24809	81.9	81.5
11	20	31	20	20	40	22	27	49	18	26	44	100.0	75.5
2	7	9	2	4	6	2	18	20	2	18	20	100.0	22.2
+	+	+	+	+	+	+	+	+	+	+	+	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	2	2	0	2	4	0	4	4	0	4	66.7	0
44	66	110	44	71	115	66	218	284	66	218	284	66.7	32.6
18	130	148	18	137	155	33	165	198	33	165	198	54.5	83.0
0	4	4	0	2	2	0	2	2	0	2	2	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	227	304	86	234	320	127	430	557	123	429	552	68.8	54.6
2266	3439	5705	2324	3408	5732	2896	4246	7142	2877	4331	7208	81.6	80.7
1898	1910	3808	1886	1952	3838	2352	2716	5068	2447	2837	5284	81.9	73.4
2956	3982	6938	2968	3909	6877	3365	4352	7717	3545	4565	8110	88.9	89.3
168	130	298	142	131	273	239	161	400	239	161	400	59.5	79.2
813	925	1738	793	936	1729	1165	1245	2410	1198	1518	2716	64.8	77.9
1364	1616	2980	1448	1588	3036	1838	2042	3880	1955	2042	3997	79.1	77.3
899	1470	2369	908	1682	2590	1000	2216	3216	1058	2319	3377	91.7	80.9
3798	3532	7330	4071	3785	7856	5043	5154	10197	6194	5993	12187	81.9	76.7
261	237	498	271	242	513	442	388	830	475	472	947	59.0	63.9
14423	17241	31664	14811	17633	32444	18340	22520	40860	19988	24238	44226	81.4	79.9

c. Based on 1989 production and average March 1989 vs. March 1990 producing capacity. Refer to July 1989 *Fiber Organon* for March 1989 producing capacity.

The regional totals here are the same as those on pages 164 -167.

TABLE 7:
PERCENT SHARE OF WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER
PRODUCTION & PRODUCING CAPACITY BY AREA

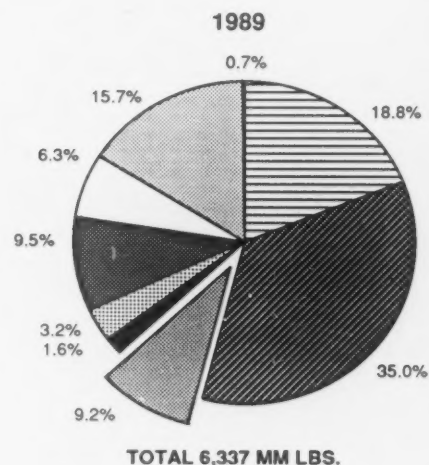
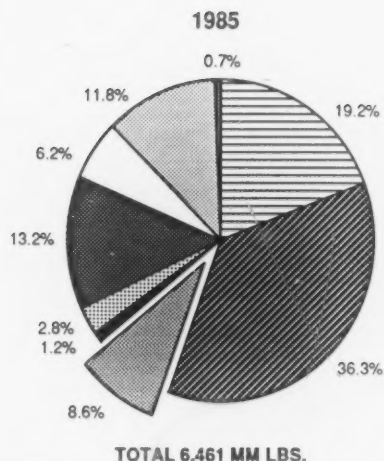
AREA	PRODUCTION		PRODUCING CAPACITY	
	1985	1989	3/1985	3/1990
WEST EUROPE	19.2	18.8	18.7	16.5
EAST EUROPE	36.3	35.0	37.2	36.4
U.S.A.	8.6	9.2	9.5	7.1
CANADA	1.2	1.6	1.4	1.5
OTHER AMERICAS	2.8	3.2	3.0	3.5
JAPAN	13.2	9.5	11.7	9.6
CHINA, PRC	6.2	6.3	6.2	6.7
OTHER ASIA	11.8	15.7	11.0	18.0
MIDDLE EAST, AFRICA & OCEANIA	0.7	0.7	1.3	0.7
TOTAL	100.0	100.0	100.0	100.0

TABLE 8:
PERCENT SHARE OF WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER
PRODUCTION & PRODUCING CAPACITY BY AREA

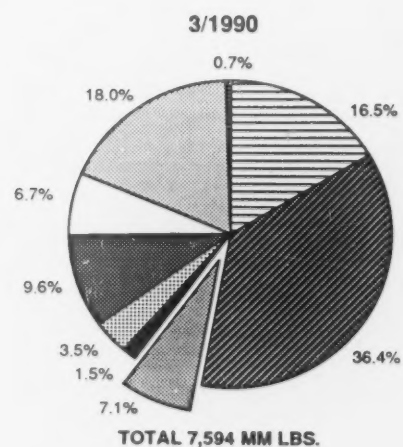
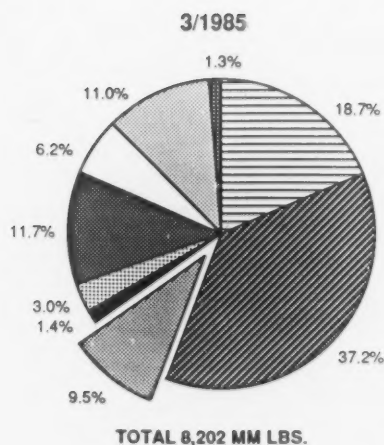
AREA	PRODUCTION		PRODUCING CAPACITY	
	1985	1989	3/1985	3/1990
WEST EUROPE	20.6	17.7	19.3	17.5
EAST EUROPE	12.0	11.8	13.1	12.4
U.S.A.	22.9	21.2	23.4	18.9
CANADA	1.1	0.8	1.0	1.0
OTHER AMERICAS	5.6	5.3	6.1	5.9
JAPAN	11.2	9.4	10.7	9.5
CHINA, PRC	5.9	8.0	6.6	7.9
OTHER ASIA	19.1	24.2	17.5	24.9
MIDDLE EAST, AFRICA & OCEANIA	1.6	1.6	2.3	2.0
TOTAL	100.0	100.0	100.0	100.0

**GRAPH 2:
PERCENT SHARE OF WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER
PRODUCTION & PRODUCING CAPACITY BY AREA**

PRODUCTION

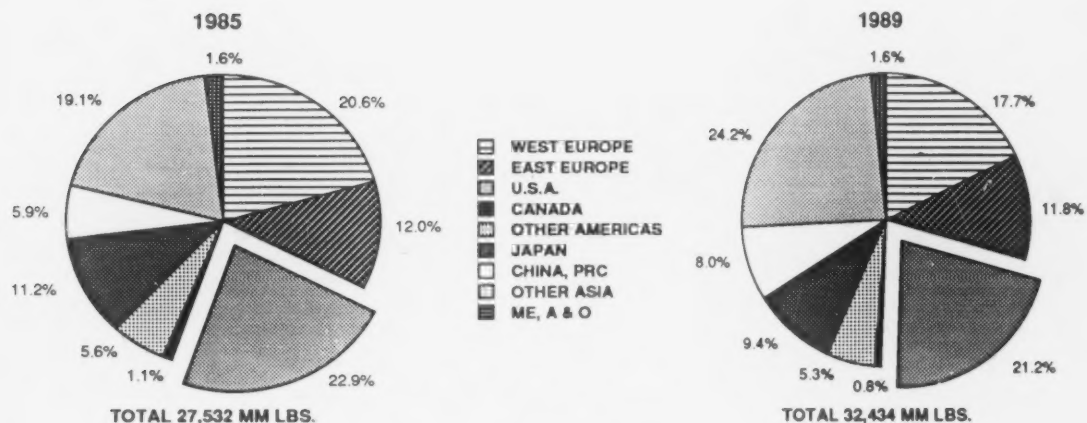


PRODUCING CAPACITY



**GRAPH 3:
PERCENT SHARE OF WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER
PRODUCTION & PRODUCING CAPACITY BY AREA**

PRODUCTION



PRODUCING CAPACITY

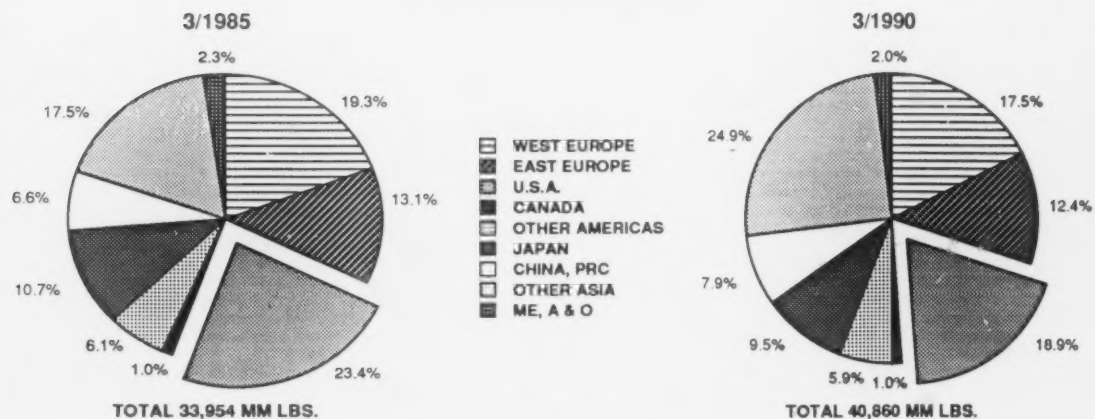


**TABLE 9:
WORLDWIDE GLASS FIBER
PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS**

COUNTRY	PRODUCTION					CAPACITY	
	1985	1986	1987	1988	1989	3/90	12/91
WEST EUROPE }	705	802	897	1025	1036	970	1190
EAST EUROPE ^a						220	243
U.S.A.	1394	1389	1598	1609	1620	1821	2046
OTHER AMERICAS	71	77	110	143	143	176	209
JAPAN	602	529	661	750	761	772	794
MIDDLE EAST, AFRICA & OCEANIA ^b	62	66	77	121	143	176	209
TOTAL ABOVE	2834	2863	3343	3648	3703	4135	4691
CHINA P.R.C.	110	110	121	143	154	220	243
U.S.S.R.	187	220	243	276	293	441	441

Glass fiber is defined on page 122 of the June 1990 issue. The glass fiber producing capacity, is based on March 1990 and December 1991 annual projections.

- a. The data for East Europe do not include estimates for the U.S.S.R.
b. The Other Asia, Africa & Oceania countries are Australia, India, Korea, Rep. of, South Africa and Taiwan.

**TABLE 10:
ESTIMATED WORLDWIDE
CIGARETTE TOW PRODUCTION
MILLION POUNDS**

AREA	1985	1986	1987	1988	1989
EUROPE ^a	183	229	236	273	280
U.S.A.	463	476	545	549	584
OTHER AMERICAS ^b					
ASIA ^c	97	93	101	108	121
WORLD TOTAL	743	798	882	930	985

- a. Belgium, Germany, Fed. Rep., U.S.S.R. & United Kingdom.
b. Brazil, Canada, Colombia, Mexico & Venezuela.
c. Japan and Korea, Rep. of.

The following is an addition in the **Worldwide Directory of Manufactured Fiber Producers** which appeared in our June 1990 *Fiber Organon*.

On page 140,
PERU

Add the following company name:
IBELTEX S.A.
Modacrylic Lima (staple)

**TABLE 11:
WORLDWIDE OLEFIN FIBER PRODUCTION
MILLION POUNDS**

COUNTRY	1985	1986	1987	1988	1989
WEST EUROPE					
AUSTRIA	53	57	60	66	71
BENELUX	265	311	353	364	375
DENMARK	55	57	66	71	75
FINLAND	53	53	40	42	44
FRANCE	110	121	128	154	165
GREECE/CYPRUS	31	33	35	37	40
GERMANY, FED. REP.	218	229	254	298	320
IRELAND	20	20	22	22	22
ITALY	280	287	287	298	298
NORWAY	9	9	11	9	11
PORTUGAL	66	66	79	82	84
SPAIN	82	90	108	117	123
SWEDEN	13	13	13	15	18
SWITZERLAND	31	37	44	49	46
TURKEY	13	13	15	15	22
UNITED KINGDOM	209	243	276	309	320
TOTAL WEST EUROPE	1508	1639	1791	1948	2034
EAST EUROPE					
CZECHOSLOVAKIA	26	26	26	26	29
HUNGARY	37	44	49	57	62
POLAND	35	37	37	37	44
U.S.S.R.	49	53	53	55	55
U.S.A.					
YARN+MONOFIL	423	470	494	553	591
STAPLE	302	335	362	364	382
FILM FIBER	514	580	642	646	635
CANADA	106	121	134	137	146
OTHER AMERICAS					
ARGENTINA	33	42	53	40	33
BRAZIL	86	88	88	170	181
CHILE	11	13	15	13	15
COLOMBIA	0	0	7	7	7
EL SALVADOR	7	7	7	7	7
GUATEMALA					
HONDURAS					
MEXICO	57	60	60	62	62
NICARAGUA	2	2	2	2	2
PERU	13	15	15	15	15
URUGUAY	4	4	4	4	4
JAPAN					
YARN+MONOFIL	31	24	31	35	44
STAPLE	77	82	79	84	84
FILM FIBER	NA	NA	NA	NA	NA
OTHER ASIA					
KOREA, REP. OF	2	0	0	0	0
PHILIPPINES	7	7	7	7	7
TAIWAN	157	170	172	174	198
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	51	55	57	57	62
SOUTH AFRICA	11	11	11	11	22
OTHER	2	2	2	2	2

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example: although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example. Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 12:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1	89	68								228	11
BRAZIL	26	53	53	74	165								371	324
CANADA	628	303	171	405	377								1884	3329
CHILE	0	309	66	44	287								706	132
GERMANY, FED. REP. OF	422	516	844	684	783								3249	2948
IRELAND	145	0	36	35	34								250	245
JAPAN	104	72	111	104	170								561	611
KOREA, REP. OF	0	22	33	22	29								106	144
MEXICO	102	4	121	78	100								405	624
NETHERLANDS	282	264	345	178	275								1344	938
UNITED KINGDOM	34	22	60	0	38								154	490
ALL OTHER COUNTRIES ^a	21	56	22	49	25								173	303
TOTAL ARTIFICIAL YARN	1831	1624	1863	1762	2351								9431	10099
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108	1254	910								3084	1729
CANADA	4973	3854	4391	4333	4128								21679	17711
CHINA, PRC	0	0	0	0	0								0	1225
GERMANY, DEM. REP.	0	0	0	0	0								0	220
GERMANY, FED. REP. OF	89	134	257	322	347								1149	470
JAPAN	143	204	126	131	238								842	1463
SWITZERLAND	0	27	0	14	0								41	177
TAIWAN	354	988	1323	964	1732								5361	464
UNITED KINGDOM	89	93	73	37	162								454	607
ALL OTHER COUNTRIES ^b	337	301	183	136	32								989	886
TOTAL ARTIFICIAL STAPLE+TOW	6304	6094	6461	7191	7549								33599	24952
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	0	43	34	9								86	87
BELGIUM	776	122	589	594	1384								3485	685
BRAZIL	70	71	57	180	118								496	509
CANADA	3834	2895	4150	3775	4492								19146	15058
COSTA RICA	762	517	497	462	787								3025	2178
ECUADOR	53	16	67	67	75								278	319
FRANCE	2007	1305	1065	1378	1223								6978	5728
GERMANY, FED. REP. OF	2096	2021	1480	1546	2024								9167	11947
ISRAEL	0	0	0	0	0								0	1122
ITALY	892	434	593	905	861								3685	4010
JAPAN	760	658	505	573	356								2852	2804
KOREA, REP. OF	31	0	90	20	46								187	245
MEXICO	1393	900	1607	1396	1145								6441	10438
NETHERLANDS	103	305	921	219	117								1865	935
SINGAPORE	16	16	0	0	33								65	58
TAIWAN	791	227	114	818	437								2387	5015
THAILAND	58	93	95	123	64								433	328
UNITED KINGDOM	1881	1492	2076	1029	1282								7760	7687
ALL OTHER COUNTRIES ^c	413	319	196	121	141								1190	759
TOTAL SYNTHETIC YARN	15936	11391	14145	13240	14594								69306	69912
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11	11	6								81	26
AUSTRALIA	38	120	30	72	63								323	290
BELGIUM	1	16	0	158	0								175	329
CANADA	3703	2439	3082	2325	2156								13705	6412
FRANCE	592	297	769	436	558								2652	1580
GERMANY, FED. REP. OF	1017	1236	1063	1205	1618								6139	7845
INDIA	1731	1055	4215	0	2528								9529	7881
IRELAND	0	26	0	0	0								26	1413
ITALY	422	318	534	204	206								1684	1189
JAPAN	1754	1763	2307	1539	1531								8894	11032
KOREA, REP. OF	1786	1273	1778	2043	3441								10321	19469
MEXICO	3590	2041	2015	2355	3385								13386	3640
NETHERLANDS	1	0	57	20	10								88	370
SPAIN	35	0	0	0	0								35	290
SWITZERLAND	399	124	87	385	107								1102	736
TAIWAN	888	572	931	1400	1476								5267	2437
TURKEY	112	114	0	0	0								226	129
UNITED KINGDOM	2249	1868	2834	2159	2242								11352	11043
ALL OTHER COUNTRIES ^d	549	326	137	92	219								1323	185
TOTAL SYNTHETIC STAPLE+TOW	18867	13641	19850	14404	19546								86308	76296

^a. Italy 50, Ecuador 33, India 33, France 24, Uruguay 13, Belgium 12, Taiwan 4, Thailand 3, Hong Kong 1.

^b. Poland 384, Sweden 310, Finland 121, Thailand 66, France 59, Netherlands 44, Brazil 3, Italy 2.

^c. Portugal 449, Spain 194, Paraguay 83, Ireland 82, Switzerland 78, Turkey 70, El Salvador 60, Sweden 41, Hong Kong 40, Morocco 23, Finland 22, Austria 19, Yugoslavia 8, Haiti 6, Honduras 5, Colombia 3, Greece 3, Australia 2, Dominican Republic 2.

^d. Venezuela 395, China, PRC 224, Thailand 209, Sweden 180, Malaysia 88, Brazil 80, Hong Kong 64, Poland 47, Romania 29, Denmark 7.

**TABLE 13:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS**

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240	163	110								963	1104
TEXTURED	54	8	0	33	32								127	205
OTHER	1385	1371	1471	1528	2171								7926	8311
MONOFILAMENTS & STRIPS	150	37	152	38	38								415	479
SUBTOTAL ABOVE	1831	1624	1863	1762	2351								9431	10099
STAPLE	5989	5884	6154	6846	7218								32091	24744
TOW	312	210	307	342	331								1502	157
TOPS	3	0	0	3	0								6	51
SUBTOTAL ABOVE	6304	6094	6461	7191	7549								33598	24952
WASTE	0	0	0	22	0								22	400
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437	1000	1336								8064	7043
TEXTURED														
UP TO 450 DENIER	270	333	253	338	520								1714	1565
OVER 450 DENIER	2936	1350	2132	3039	3721								13178	6328
OTHER	4531	3817	4273	2090	2435								17146	19053
MONOFILAMENTS & STRIPS	216	117	148	191	134								806	545
SUBTOTAL ABOVE	9388	6473	8243	6658	8146								38908	34534
POLYESTER														
HIGH TENACITY	614	408	506	421	345								2294	4031
TEXTURED	785	643	626	923	581								3558	7835
POY	719	119	117	758	251								1964	4514
OTHER	2038	1457	1459	1683	1949								8586	7416
MONOFILAMENTS & STRIPS	53	0	67	40	53								213	258
SUBTOTAL ABOVE	4209	2627	2775	3825	3179								16615	24054
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224	1880	2281								9244	8420
OTHER	277	223	301	276	307								1384	1431
MONOFILAMENTS & STRIPS	611	660	602	601	681								3155	1473
SUBTOTAL ABOVE	2339	2291	3127	2757	3269								13783	11324
STAPLE														
NYLON	4048	3037	4055	3032	3267								17439	8481
POLYESTER	9261	5813	9622	6652	12118								43466	42179
ACRYLIC	1711	1729	2063	1586	860								7949	7262
POLYPROPYLENE	543	37	160	27	105								872	740
OTHER	196	190	320	146	151								1003	2770
TOW														
NYLON	409	308	555	385	603								2260	1772
POLYESTER	15	70	70	2	26								183	445
ACRYLIC	2512	1973	2649	2252	2133								11519	10249
OTHER	70	5	35	105	135								350	383
TOPS	102	479	321	217	148								1267	2015
SUBTOTAL ABOVE	18867	13641	19850	14404	19546								86308	76296
WASTE														
NYLON	2694	2074	1628	1933	1267								9596	9565
POLYESTER	2703	2241	1882	1067	3127								11020	3944
OTHER	444	571	1027	602	838								3482	2631
TOTAL MANUFACTURED FIBERS ABOVE	48779	37636	46856	40221	49272								222784	197799
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	115	59	54	62	59								349	459
SPUN YARN	427	503	318	594	534								2376	1963
SPUN YARNS														
SYNTHETIC	2420	2155	2639	1902	2841								11957	23318
ARTIFICIAL	0	0	0	0	0								0	0
PUT UP FOR RETAIL SALE	32	24	70	34	87								247	250
GRAND TOTAL ABOVE	51773	40377	49937	42813	52793								237693	223789

SOURCE: U.S. Census Bureau Report IM145X

**TABLE 14:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS**

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44	6	45								224	123
TEXTURED	217	9	30	284	101								641	539
OTHER	66	106	57	64	46								339	856
MONOFILAMENTS & STRIPS	97	0	15	11	26								149	195
SUBTOTAL ABOVE	472	152	146	365	218								1353	1713
STAPLE	1195	2051	1838	1329	1645								8058	8517
TOPS	333	0	203	187	185								908	284
SUBTOTAL ABOVE	1528	2051	2041	1516	1830								8966	8801
WASTE	330	407	614	547	603								2501	6200
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332	8892	15463								48801	49565
TEXTURED														
UP TO 450 DENIER	1571	588	626	2098	791								5674	3312
OVER 450 DENIER	5636	4353	5225	4130	3350								22694	23742
OTHER	2637	2264	3143	2401	2191								12636	11033
MONOFILAMENTS & STRIPS	8	32	93	33	42								208	1019
SUBTOTAL ABOVE	17609	14594	18419	17554	21637								90013	88671
POLYESTER														
HIGH TENACITY	4308	5166	5459	4737	3944								23614	16422
TEXTURED	3074	3021	4078	3508	3650								17331	15860
POY	1831	2368	1287	1783	2918								10187	6468
OTHER	1297	1746	1824	1275	2294								8436	4180
MONOFILAMENTS & STRIPS	185	285	91	93	188								842	1058
SUBTOTAL ABOVE	10695	12586	12739	11396	12994								60410	43988
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549	801	424								2832	4257
OTHER	2035	2007	2279	2972	4061								13354	7837
MONOFILAMENTS & STRIPS	876	913	1664	1218	1223								5894	3922
SUBTOTAL ABOVE	3446	3443	4492	4991	5708								22080	16018
STAPLE														
NYLON	3163	2765	2343	3257	2210								13738	15041
POLYESTER	7157	6405	9490	7701	8861								39614	61348
ACRYLIC	4584	3178	3882	3936	4697								20277	28881
POLYPROPYLENE	2038	1561	2666	3226	2211								11702	9012
OTHER	2688	923	1504	961	1818								7894	8657
TOW														
NYLON	121	176	155	304	145								901	380
POLYESTER	18	64	0	100	6								188	1714
ACRYLIC	1710	1787	989	956	1245								6687	9752
OTHER	26	12	15	243	0								296	723
TOPS	3984	2729	2309	4760	2552								16334	8318
SUBTOTAL ABOVE	25489	19600	23353	25444	23745								117631	143826
WASTE														
NYLON	4117	4250	3894	2746	3957								18964	11389
POLYESTER	3268	2845	2782	3321	2596								14812	20758
OTHER	3343	3700	4979	4352	4994								21368	33952
TOTAL MANUFACTURED FIBERS ABOVE	70297	63628	73459	72232	78482								358098	375314
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32	25	68								198	190
SPUN YARN	0	0	0	0	0								0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749	4278	4103								19441	15198
ARTIFICIAL	0	0	0	0	0								0	0
PUT UP FOR RETAIL SALE	287	398	641	746	789								2861	3381
GRAND TOTAL ABOVE	73619	68375	77881	77281	83442								380598	394083

SOURCE: U.S. Census Bureau Report EM522

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1990												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
MANUFACTURED FIBER TOTAL SHIPMENTS ^{b,c}														
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1	17.4	16.9							100.3	111.1
RAYON STAPLE	30.1	25.3	26.3	28.2	25.1	22.6							157.6	200.2
TOTAL ARTIFICIAL (CELLULOSIC)	45.2	40.7	43.7	46.3	42.5	39.5							257.9	311.3
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL ^d	24.9	30.3	28.4	28.4	28.8	27.6							168.4	188.3
- CARPET	86.5	81.1	82.2	85.6	80.1	75.8							491.3	476.2
- TEXTILE ^f	28.9	28.2	29.9	32.0	32.0	31.2							182.2	204.7
POLYESTER - INDUSTRIAL ^d	27.2	28.6	31.8	32.5	30.4	30.2							180.7	184.6
- TEXTILE ^f	56.6	56.2	58.0	69.8	68.4	61.4							370.4	440.1
OLEFIN ^g	104.5	113.9	114.1	119.5	119.9	117.1							689.0	635.1
TOTAL YARN	328.6	338.3	344.4	367.8	359.6	343.3							2082.0	2129.0
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0	87.0	77.6							499.3	485.5
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7	43.0	43.8							249.8	281.4
POLYESTER	168.9	175.7	173.2	181.9	176.0	167.7							1043.4	1226.6
OLEFIN	30.3	34.4	35.3	35.2	36.1	37.2							208.5	191.9
TOTAL STAPLE	328.4	324.7	337.7	341.8	342.1	326.3							2001.0	2185.4
TOTAL SYNTHETIC (NONCELLULOSIC)	657.0	663.0	682.1	709.6	701.7	669.6							4083.0	4314.4
TOTAL MANUFACTURED FIBER	702.2	703.7	725.8	755.9	744.2	709.1							4340.9	4625.7
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1	7.6	8.7							8.7	8.9
RAYON STAPLE	20.2	17.2	14.0	14.2	11.9	10.1							10.1	15.8
TOTAL ARTIFICIAL (CELLULOSIC)	29.9	27.1	22.8	23.3	19.5	18.8							18.8	24.7
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL ^d	36.8	33.7	33.4	36.0	30.1	35.7							35.7	24.5
- CARPET	60.5	61.2	62.6	63.2	65.4	78.2							78.2	66.8
- TEXTILE ^f	57.0	59.9	64.3	63.5	63.5	62.9							62.9	49.2
POLYESTER - INDUSTRIAL ^d	39.3	40.6	39.5	39.2	37.9	35.8							35.8	31.9
- TEXTILE ^f	94.5	104.9	109.9	106.4	99.7	100.8							100.8	89.1
OLEFIN ^g	68.1	66.6	66.0	63.9	63.9	64.9							64.9	60.7
TOTAL YARN	356.2	366.9	375.7	372.2	360.5	378.3							378.3	322.2
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3	47.7	60.5							60.5	57.0
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3	78.9	83.2							83.2	69.7
POLYESTER	193.5	195.1	192.9	217.4	210.8	212.4							212.4	191.0
OLEFIN	34.6	33.4	31.5	29.8	28.5	28.6							28.6	33.3
TOTAL STAPLE	337.7	339.9	334.3	366.8	365.9	384.7							384.7	351.0
TOTAL SYNTHETIC (NONCELLULOSIC)	693.9	706.8	710.0	739.0	726.4	763.0							763.0	673.2
TOTAL MANUFACTURED FIBER	723.8	733.9	732.8	762.3	745.9	781.8							781.8	697.9
COTTON CONSUMPTION														
RAW COTTON	317.3	332.1	365.9	327.8	340.0							1683.1	1632.0	
WOOL CONSUMPTION ^g														
	1ST QUARTER		2ND QUARTER		3RD QUARTER		4TH QUARTER							
APPAREL CLASS WOOL	29.9								29.9 35.8					
CARPET CLASS WOOL	3.8								3.8 3.3					
TOTAL RAW WOOL	33.7								33.7 39.1					

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. Wool data for 1990 available on a quarterly basis only.